88888888888 888888888888 888888888888	В	AAAAAAA AAAAAAA AAAAAAA	4	\$	RRRR	RRRRRRR RRRRRRR RRRRRRRR		
888	BBB	ÄÄÄ	AAA	\$\$\$ \$\$\$	RRR	RRR RRR		LLL
888	888	AAA	AAA	SSS	RRR	RRR	ΪΪΪ	
888	888	ÄÄÄ	AAA	SSS	RRR	RRR	İİİ	
BB <b>B</b>	BBB	AAA	AAA	ŠŠŠ	RRR	RRR	ήήή	LLL
888	BBB	AAA	AAA	SSS	RRR	RRR	ŤŤŤ	iii
8888888888	В	AAA	AAA	SSSSSSSS		RRRRRRR	ŤŤŤ	ili
8888888888		AAA	AAA	ŠŠŠŠŠŠŠŠŠ		RRRRRRR	ŤŤŤ	iii
8888888888		AAA	AAA	SSSSSSSS		RRRRRRR	TTT	ΙΙΙ
BBB	888			\$\$\$	RRR	RRR	TTT	LLL
888	888	*********		ŞŞŞ	RRR	RRR	ŢŢŢ	LLL
888	BBB			SSS	RRR	RRR	ŢŢŢ	LLL
88 <b>8</b>	BBB	AAA	AAA	SSS	RRR	RRR	III	řřř
888	888	AAA	AAA	SSS	RRR	RRR	ŢŢŢ	iřř
888	BBB	AAA	AAA	222	RRR	RRR	ŢŢŢ	LLL
88888888888888888888888888888888888888		AAA	AAA	\$\$\$\$\$\$\$\$\$\$\$\$\$	RRR	RRR	ŢŢŢ	rrrrrrrrrrr
BBBBBBBBBBB		AAA	AAA	\$\$\$\$\$\$\$\$\$\$\$\$\$	RRR	RRR	<b>!!!</b>	
00000000000	D	AAA	AAA	SSSSSSSSSS	RRR	RRR	TTT	

LLLLLLLLL

LLLLLLLLL

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111111

111111

G 4

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0002
                    0004
                    0006
                    8000
                    0009
10
                    0010
11
                    0011
12
                    0012
14
15
16
17
                    0014
                    0015
                    0016
                    0017
1890123456789012335555555678901
                    0018
                    0019
                    0020
                    0021
                    0022
                    0024
                    9500
                   0027
0028
0029
0030
0031
0032
0033
0035
0037
0038
0039
                    0040
                    0041
42
                    0042
44
                    0044
                    0045
46
                    0046
                    0047
490123555
                    0048
                    0049
                    0050
                    0051
                    0052
                    0054
                    0055
56
57
                    0056
```

```
O MODULE BASSEND (
                                                    ! End of_major frame
                  IDENT = '1-018'
                                           ! File: BASEND.B32 Edit: MDL1018
```

H 4

16-Sep-1984 00:21:28 6-Sep-1984 13:02:03

BEGIN

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FACILITY: BASIC-PLUS-2 frame Support

ABSTRACT:

These routines set up and tear down frames for BASIC-PLUS-2. frames are used for main routines, external functions, external subroutines, internal functions (both DEFs and DEF+s) internal subroutines (GOSUBs) and condition handlers.

ENVIRONMENT: VAX-11 user mode

AUTHOR: John Sauter, CREATION DATE: 10-Oct-78

MODIFIED BY:

1-001 - Original. 1-002 - Change from BAS\$ to BSF\$ for stack frame names. JBS 08-FEB-1979 1-003 - Purge any FJELD variables being deallocated. JBS 28-FEB-1979

1-004 - Deallocate dynamic strings, but ignore fixed sring templates.

JBS 20-MAR-1979

1-005 - Remove edit 003--the call to purge fIELD variables will be issued by the compiler so that the FIELD code need not be in the sharable library. JBS 02-APR-1979

1-006 - Similarly, don't flush virtual arrays. JBS 09-APR-1979

1-007 - Change LIBSS and OTSSS to STRS. JBS 21-MAY-1979

1-008 - Correct calls to STRSFREE1\_DX. JBS 22-MAY-1979

BASSEND 1-018	1 4 16-Sep-1984 00:21:28 VAX-11 Bliss-32 V4.0-742 6-Sep-1984 13:02:03 [BASRTL.SRC]BASEND.B32;1
58 0058 59 0059 60 0060 61 0061 62 0062 63 0063 64 0064 65 0065 66 0066 67 0067 68 0068 69 0069 70 0070 71 0071 71 72 0072 73 74 0074 75 0075	1   1-010 - Use JSB entry point to STR\$FREEI_DX. JBS 11-JUN-1979 1   1-011 - Improve the error message for the case of an error handler falling off the end of the program. JBS 24-JUL-1979 1   1-012 - Call BAS\$\$UNWIND when cutting back GOSUBS. JBS 03-AUG-1979 1   1-013 - If the frames are confused, give a special message if the bad frame is a DEF*. JBS 18-SEP-1979 1   1-014 - Use BAS\$\$ZI RET to cut back frames. JBS 09-NOV-1979 1   1-015 - Cut back DEF* frames, too. JBS 09-NOV-1979 1   1-016 - Add support for run-time dimensioned arrays. PLL 13-May-1982 1   1-017 - Check frame version number before executing run-time array code. PLL 17-May-1982 1   1-018 - recover the pointer to temporary storage after unwinding GOSUB and DEF* frames. MDL 27-Dec-1983

Page 2 (1)

```
0076 1 !
0077 1 ! SWITCHES:
 78
79
                 0078
8123456789012345678901234567
100234567
100234567
                 0079
                          SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
                 0081
                          ! LINKAGES:
                          LINKAGE
                                BASSINIT_LINK = JSB (REGISTER = 0, REGISTER = 1, REGISTER = 2) : !
GLOBAL (BSFSA_MAJOR_STG = 11, BSFSA_MINOR_STG = 10, BSFSA_TEMP_STG = 9)
NOPRESERVE (8, 7, 6, 5, 4, 3, 2, 1, 0);
                          REQUIRE 'RTLIN: STRLNK':
                                                                                       ! String linkages
                             TABLE OF CONTENTS:
                          FORWARD ROUTINE
                               BAS$END_R8 : NOVALUE BAS$INIT_LINK; ! end major frame
                             INCLUDE FILES:
                          LIBRARY 'RTLSTARLE':
                                                             ! define desc offsets
                          REQUIRE 'RTLIN:RTLPSECT';
                                                                                       ! Macros for defining psects
108
109
                          REQUIRE 'RTLIN:BASFRAME';
                                                                                       ! Define frame structure
110
111
                0590
                          REQUIRE 'RTLIN: BASINARG';
                                                                                       ! Define argument list
112
                0674
                0675
0676
114
                             MACROS:
115
                0677
116
                0678
                                     NONE
                0679
118
                0680
                             EQUATED SYMBOLS:
119
                0681
                0682
0683
120
121
123
124
126
127
128
129
130
133
                                     NONE
                0684
0685
                             PSECTS:
                0686
0687
                           DECLARE_PSECTS (BAS);
                                                                                       ! Declare psects for BAS$ facility
                0688
                             OWN STORAGE:
                0689
                0690
                                     NONE
                0691
                0692
                             EXTERNAL REFERENCES:
                0694
0695
                       1 EXTERNAL
```

0714 1

Page

```
154
155
156
157
158
159
160
                   0715
0716
0717
                                                                                                      ! end of major frame
! original frame parameters
                               GLOBAL ROUTINE BASSEND_R8 (
                                           ARGLIST
                                     ) : NOVALUE BAS$INIT_LINK =
                   0718
                   0719
                                  FUNCTIONAL DESCRIPTION:
                                           Tear down a frame for a BASIC-PLUS-2 major procedure. All heap storage is deallocated. The argument is the same as for BAS$INIT_R8, for validity checking. Intervening GOSUB frames are removed. These frames had better not
161
162
                   0724
0725
0726
0728
0728
0730
0733
0736
0738
0739
164
165
                                           save any registers not saved by the major procedure.
166
167
                                  FORMAL PARAMETERS:
168
169
170
171
172
173
174
175
                                                                  List of information used to set up the frame. See BASIC-PLUS-2/VAX Description
                                           ARGLIST.ra.v
                                                                   of Generated Code for details.
                                  IMPLICIT INPUTS:
                                           The frame, as set up by BAS$INIT_R8.
176
177
                                   IMPLICIT OUTPUTS:
178
179
                   0740
                                           NONE
180
                   0741
                   0742
0743
181
                                  ROUTINE VALUE:
182
183
                   0744
                                           NONE
184
                   0745
                   0746
185
                                  COMPLETION CODES:
186
                   0747
                   0748
187
                                           NONE
188
                   0749
189
                   0750
                                  SIDE EFFECTS:
190
                   0751
191
                                           Deallocates the heap storage and virtual arrays local to this
192
                   0753
                                           major procedure.
                   0754
193
                   0755
194
                   0756
0757
195
                                     BEGIN
196
                   0758
197
                    0759
198
                                     EXTERNAL REGISTER
                                           BSF$A_MAJOR_STG : REF BLOCK [O, BYTE],
BSF$A_MINOR_STG : REF VECTOR,
199
                    0760
                    0761
200
                   0762
0763
201
202
203
204
205
206
207
208
210
                                           BSF$A_TEMP_STG : REF VECTOR;
                   0764
0765
0766
0767
0768
                                     BUILTIN FP;
                                           ARGLIST: REF BLOCK [O, BYTE] FIELD (BAS$INIT_ARGS);
                                                                                                                              ! arg list
                    0769
                    0770
                                      REGISTER
                                           FMP : REF BLOCK [O, BYTE] FIELD (BSF$FCD),
                                                                                                                  ! pointer to fCD
```

```
0772
0773
                               PREV_FMP : REF BLOCK [O, BYTE] FIELD (BSF$FCD); ! previous FCD
0774
0775
                        first cut back any GOSUB frames. We wish to make the presence of
              0776
0777
                        the GOSUB frame invisible except on traceback.
              0778
0779
                           FMP = .FP;
              0780
                           WHILE ((.FMP [BSF$B_PROC_CODE] EQL BSF$K_PROC_GOSB) OR (.FMP [BSF$B_PROC_CODE] EQL BSF$K_PROC_DEFS)) DO
              0781
0782
0783
                        We have a GOSUB or DEF* frame, remove it.
              0784
0785
0786
0787
                               BAS$$UNWIND (.FMP)
                               FMP [BSF$A_SAVED_PC] = BAS$$Z1_RET;
                               PREV_FMP = .FMP [BSF$A_SAVED_FP];
              0788
              0789
                               Jf (.PREV_FMP [BSF$A_HANDLER] NEQA BAS$HANDLER)
              0790
                               THEN
              0791
              0792
0793
                        The previous frame is not a BASIC frame. This is unreasonable
                        since DEf*s and GOSUBs should only be callable from inside a BASIC main
              0794
                        procedure.
              0795
              0796
                                   BAS$$STOP (BAS$K_RETWITGOS);
              0797
              0798
                               fmp = .PREV_fmp;
              0799
                               END:
              0800
              0801
              0802
0803
                      ! Make sure this is a major frame.
              0804
              0805
                           CASE .FMP [BSf$B_PROC_CODE] FROM BSf$K_PROC_MAIN TO BSf$K_PROC_IOL OF
              0806
              0807
              0808
                               [BSF$K_PROC_MAIN, BSF$K_PROC_SUB, BSF$K_PROC_EXTF] :
              0809
                                   BEGIN
              0810
              0811
                                     recover the pointer to temporary storage for this frame.
              0812
0813
                                   BSF$A_TEMP_STG = .FMP [BSF$A_BASE_R9];
              0814
                                   END:
              0815
              0816
                               [BSF$K_PROC_DEFS] :
              0817
                                   BAS$$STOP (BAS$K_ILLEXIDEF);
              0818
              0819
                               [BSF$K_PROC_DEF, BSF$K_PROC_GOSB, BSF$K_PROC_IOL] :
              0820
                                   BAS$$STOP (BAS$K_PROLOSSOR);
              0821
             0822
0823
                               [BSF$K_PROC_ONER]
                                   BASSSTOP (BASSK_ERRTRANEE);
              0824
              0825
                               [OUTRANGE] :
              0826
                                   BAS$$STOP (BAS$K_PROLOSSOR);
              0827
              0828
```

```
Check to be sure that this is the correct exit. This should
                         never fail, since there can be only one argument list to the
                         major procedure.
                            IF (.fMP [BSf$a_INIT_ARG] NEQA .ARGLIST)
                            THEN
                         The argument lists are not at the same address. This exit must not
                         correspond to the entry. Signal an error.
                                BAS$$STOP (BAS$K_PROLOSSOR);
                         Deallocate any temporary string storage.
                            INCR COUNTER FROM 1 TO .ARGLIST [BAS$L_IN_NO_TST] DO
                                STR$FREE1_DX_R4 (BSF$A_TEMP_STG [(TCOUNTER - 1)*2]);
                         Deallocate local dynamic strings.
                            INCR COUNTER FROM 1 TO .ARGLIST [BAS$W_IN_NO DST] DO
                                STR$FREE1_DX_R4 (.FMP [BSF$A_STR_DESC] + ((.COUNTER - 1) + (2 * **UPVAL)));
296
297
298
              0858
                         If there were any run-time dimensioned arrays, deallocate the storage
              0859
                         that was allocated for their elements. Notice that the frame became
299
              0860
                         bigger to accommodate run-time arrays - don't try to deallocate anything
300
              0861
                         for previous versions of the frame which did not support run-time arrays.
              0862
0863
301
302
303
              0864
                            IF (.ARGLIST [BAS$B_IN_V_FCD] GTR 1) AND (.FMP [BSF$A_RTA_DESC] NEQ 0)
304
              0865
                            THEN
305
              0866
                                BEGIN
306
              0867
                                LOCAL
307
              0868
                                    END_ADDR.
ARRAY_DSC_SIZE.
308
              0869
309
              0870
                                    RTA_DSC : REF BLOCK [16,BYTE];
310
              0871
                               RTA_DSC = .FMP [BSF$A_RTA_DESC]; ! point at 1st rt array dsc end_ADDR = .RTA_DSC + .ARGLIST [BAS$L_IN_LEN_RTA_DT]; ! loop thru all rt array dsc's
              0872
0873
311
312
313
              0874
0875
314
                                    BEGIN
315
              0876
                                    IF .RTA_DSC [DSC$A_POINTER] NEQ O
                                                                           ! make sure REMAP allocated space
316
              0877
                                    THEN
                                    317
              0878
318
              0879
                                                       (1 + .RTA_DSC [DSC$B_DIMCT]) + ! block 2, multipliers (2 * .RTA_DSC [DSC$B_DIMCT])) * ! block 3, bounds
319
              0880
320
321
322
323
              0881
              0882
0883
                                                       XUPVAL;
                                                                             compute in bytes
                                    RTA_DSC = .RTA_DSC + .ARRAY_DSC_SIZE; ! advance to next array dsc
              0884
                                    END:
              0885
                                END:
```

BA 1-	SSEND 018 325		0886	2						10	5 5-Sep-19 5-Sep-19	84 00:21 84 13:02	:28 VAX-11 Bliss-32 V4.0-742 :03 [BASRTL.SRC]BASEND.B32;1	Page 8 (3)
	325 326 327 328 329 330 331		0886 0887 0888 0889 0890 0891 0892	322221 1	ll done. Till cut bac RETURN; END;	he '	'RET' inst he stack,	ructi so we	on (	done by n't nei	ed to do	mpiled c it here of BAS\$	•	
												.TITLE .IDENT .EXTRN .EXTRN .EXTRN	BASSEND \1-018\ BASSSZI_RET, BASSSSTOP STRSFREE1_DX_R4 BASSSUNWIND, BASSHANDLER	
												EXTRN EXTRN EXTRN EXTRN PSECT	LIBSFREE VM. BASSK_RETWITGOS BASSK_ILCEXIDEF BASSK_ERRTRANEE BASSK_PROLOSSOR  BASSCODE, NOWRT, SHR, PIC, 2	
						57 55 06 05	E5 E5	50 50 A5 06 A5 31	D0 91 13 91	00003 00006 0000A 0000C	BASSEND		RO, R7 FP, FMP -27(FMP), #6 2\$ -27(FMP), #5 4\$	: 0715 : 0778 : 0780
					00000000G 10	50	000000000 000000000	55 01 00 A5 00 62 0B	DD FB 9E DO 9E D1	00012 00014 0001B 00023 00027 0002E 00031		PUSHL CALLS MOVAB MOVL MOVAB CMPL BEQL	FMP #1, BAS\$\$UNWIND BAS\$\$ZI_RET, 16(FMP) 12(FMP), PREV_FMP BAS\$HANDLER, RO (PREV_FMP), RO 3\$ #BAS\$K_RETWITGOS, -(SP)	0785 0786 0787 0789
	0	001E 001E		07 0012 0024	0000000G	7E 00 55 01 0012 001E		01 52 C3 A5 0012 0018	fB DO 11 8f	00033 00037 0003E 00041 00043 00048	45:	MOVZBL CALLS MOVL BRB CASEB .WORD	#1, BASSSSTOP PREV_FMP, FMP 18 -27(FMP), #1, #7 6\$-5\$,- 6\$-5\$,- 6\$-5\$,- 8\$-5\$,- 7\$-5\$,- 8\$-5\$,- 8\$-5\$,- 8\$-5\$	0798 0780 0805
						59 7E 7E 7E	E C 00G 00G 00G	0A 8F 04	11 9A 11 9A	00058 00058 0005E 00060 00064 00066 0006A	7\$: 8\$:	BRB MOVI BRB MOVIBL BRB MOVIBL BRB MOVIBL	98-58,- 88-58 88 -20(FMP), BSFSA_TEMP_STG 118 #BASSK_ILLEXIDEF, -(SP) 108 #BASSK_PROLOSSOR, -(SP) 108 #BASSK_ERRTRANEE, -(SP)	0826 0813 0805 0817 0820

```
C 5
                                                   16-Sep-1984 00:21:28
6-Sep-1984 13:02:03
                                                                                  VAX-11 Bliss-32 V4.0-742
                                                                                                                                 Page
                                                                                  [BASRTL.SRC]BASEND.B32:1
                                                                                                                                        (3)
                                         FB 00070 10$:
D1 00077 11$:
    0000000G
                                                                          #1, BAS$$STOP
-40(FMP), ARGLIST
                                                                CALLS
                                                                CMPL
                                     Å5
                              D8
                                                                                                                                       0835
                                     08
                                          13
                                              0007B
                                                                          12$
                                                                BEOL
                              00G
                                    8 F
                                          94 0007D
                                                                MOVZBL
                                                                          WBASSK_PROLOSSOR, -(SP)
                                                                                                                                       0841
    00000000G
                                          FB
                                             00081
                                                                CALLS
                                                                          #1, BASSSSTOP
                                     56
                                          D4 00088 125:
                                                                CLRL
                                                                          COUNTER
                                                                                                                                       0848
                                          11 0008A
                                                                          148
                                                                BRB
                  56
50
50
                                          78
                                             00080 135:
                                                                ASHL
                                                                          #1, COUNTER, RO
                      000000006 A940
30 A7
                                                                          -8(BSFSA TEMP STG)[RO], RO
STRSFREET DX R4
48(ARGLIST), COUNTER, 138
40(ARGLIST), R8
                                          DE 00090
                                                                MOVAL
                                              00095
                                                                JSB
                              30
28
EC
                  56
                                              0009B 145:
                                                                AOBLEQ
                  58
                                    A7
                                          30
                                             000A0
                                                                MOVZWL
                                                                                                                                       0854
                                     56
                                          D4
                                             000A4
                                                                CLRL
                                                                          COUNTER
                                                                                                                                       0855
                                                                          165
                                              000A6
                                                                BRB
                                          7E
C2
                              EO B546
                                             000A8 15$:
                                                                MOVAQ
                                                                          a-32(FMP)[COUNTER], RO
                  50
                                              DACCO
                                                                SUBL 2
                                                                          #8, RO
                                         16
F3
                                                                          STRSFREE1_DX_R4
R8, COUNTER, 15$
                      0000000G
                                     00
                                              000B0
                                                                JSB
                                    58
A7
                  56
01
EE
                                              000B6 16$:
                                                                AOBLEQ
                              04
                                          91
                                             000BA
                                                                (MPB
                                                                          4(ARGLIST), #1
                                                                                                                                       0864
                                     39
                                          18
                                             000BE
                                                                BLEQU
                                                                          19$
                              B8
                                     A5
                                          05
                                              00000
                                                                TSTL
                                                                          -72(FMP)
                                          13
                                             00003
                                                                BEOL
                                                                          195
                  53
53
54
                                     A5
                                                                          -72(FMP), RTA_DSC
64(ARGLIST), RTA_DSC, END_ADDR
                                                                                                                                      0872
0873
                              88
                                          D0
                                             00005
                                                                MOVL
                                     ÄŽ
54
                                          C1
                                             00009
                                                                ADDL3
                                     53
                                                                          RTA_DSC, END_ADDR
                                          D1
                                             000CE 175:
                                                                (MPL
                                                                                                                                       0874
                                                                          195
                                          18
                                             000D1
                                                                BGEQ
                              04
                                     A3
                                         D5
                                             00003
                                                                TSTL
                                                                          4(RTA_DSC)
                                                                                                                                       0876
                                          13
                                     QD
                                             00006
                                                                BEQL
                                                                          18$
                                                                          4(RTA_DSC)
12(RTA_DSC)
                                          9F
                                             000D8
                                                                PUSHAB
                                                                                                                                       0878
                                    A3
                              00
                                          9F
                                             000DB
                                                                PUSHAB
                                                                          #2, LIBSFRÉE_VM
11(RTA_DSC), RO
(RO)[RO], RO
    0000000G
                                         FB
                                             OOODE
                                                                CALLS
                  50
50
50
53
53
                              B0
                                    A3
                                          94
                                             000E5 18$:
                                                                MOVZBL
                                                                                                                                       0880
                                          3E
                                  6040
                                             000E9
                                                                MOVAW
                                                                          #2, RO, ARRAY DSC SIZE
#20, ARRAY DSC SIZE
ARRAY DSC SIZE, RTA DSC
52
                                    02
                                             000ED
                                                                ASHL
                                                                ADDL2
                                    14
                                          CO
                                             000F1
                                                                                                                                      0883
                                          CO
                                             000F4
                                    D5
                                          11 000F7
                                                                BRB
                                                                          17$
                                                                                                                                      0874
                                          05 000F9 19$:
                                                                RSB
                                                                                                                                      0892
```

; Routine Size: 250 bytes. Routine Base: \_BAS\$CODE + 0000

332 333 334 0893 1 0894 1 END 0895 0896 0 ELUDOM

PSECT SUMMARY

Name Bytes Attributes \_BASSCODE

BASSEND 1-018

0881

335

250 NOVEC, NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC, ALIGN(2)

VAX-11 Bliss-32 V4.0-742 [BASRTL.SRC]BASEND.B32:1

Page 10 (3)

Library Statistics

File Total Loaded Percent Mapped Time

\$255\$DUA28:[SYSLIB]STARLET.L32:1 9776 3 0 581 00:01.1

## COMMAND QUALIFIERS

BLISS/CHECK=(FIELD, INITIAL, OPTIMIZE)/NOTRACE/LIS=LIS\$:BASEND/OBJ=OBJ\$:BASEND MSRC\$:BASEND/UPDATE=(ENH\$:BASEND)

: Size: 250 code + 0 data bytes : Run Time: 00:09.3

Run Time: 00:09.3; Elapsed Time: 00:19.5; Lines/CPU Min: 5755; Lexemes/CPU-Min: 22561; Memory Used: 111 pages; Compilation Complete

0022 AH-BT13A-SE

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